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10/663,165	09/15/2003	Ramgopal (Paul) K. Reddy	042390.16242 2833		
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SUNNYVALE, CA 94085-4040			ART UNIT	PAPER NUMBER	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary The MAILING DATE of this communication appears on the cover sheet with the correspondence address: Period for Reply	•		Application No.	Applicant(s)				
Huy C. Ho - The MAILING DATE of this communication appears on the cover sheet with the correspondence address. Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAY WHICHEVER IS LONGER. FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provision of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (8) MONTHS from the mailing date of this communication. - IN Operiod reply is specified above, the maximum statutory period vial apply and will expire SIX (8) MONTHS from the mailing date of this communication. - IN Operiod reply is picked above, the maximum statutory period vial apply and will expire SIX (8) MONTHS from the mailing date of this communication. - IN Operiod reply is picked above, the maximum statutory period vial apply and will expire SIX (8) MONTHS from the mailing date of this communication. - IN Operiod reply is picked above, the maximum statutory period vial apply and will expire SIX (8) MONTHS from the mailing date of this communication, over the transport of this communication of the source of this communication, over the mailing date of this communication, over the first of this communication of this communication is picked any status. - Status 1) □ Responsive to communication(s) filed on 17 October 2007. - 2a) □ This action is FINAL. - 2b) □ This action is FINAL. - 2b) □ This action is non-final. 3) □ Since this application is in condition for allowance except for formal matters, prosecution as to the merit closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims - 4) □ Claim(s) 1-23 and 25-32 is/are pending in the application. - 4a) Of the above claim(s)			10/663,165	REDDY ET AL.				
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Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date Paper No(s)/Mail Date Other:	1) Notice 2) Notice 3) Inform	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/Mail 5) Notice of Informa	Date				

Art Unit: 2617

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 10/17/2007 has been entered.

Response to Arguments

2. Applicant's arguments filed 10/17/2007 have been fully considered but they are not persuasive.

The argued features, i.e., using credential information stored in a subscriber identity module (SIM) associated with a General Packet Radio Service (GPRS) adapter to authenticate access to a <u>new</u> wireless local area network (WLAN), wherein communications with the SIM <u>and the WLAN are</u> carried out using extensible authentication protocol (EAP) reads upon cited references Ahmavaara and in view of Melpignano as follows.

Ahmavaara discusses a subscriber's information within a SIM card of user equipment UE is used for authentication process when a user tries to access from one network to another, and the authentication is based on the EAP protocol. Therefore, Ahmavaara discloses the limitation of using credential information stored in a subscriber identity module (SIM) associated with a General Packet Radio Service (GPRS) adapter to authenticate access to a wireless local area network (WLAN), wherein communications with the SIM is carried out using extensible authentication protocol (EAP). Ahmavaara also discusses the method and system for providing access via a first network, which can be a WLAN or other networks to a service of a second network, which can be GPRS or other networks, thus the role of the first network and the second network is changeable in the invention (see sections [1]). Further, Ahmavaara discusses in the background of the invention that there is no problem in the case when a user connects to a GPRS service network, all authentication information required for further

Art Unit: 2617

connection to other networks, while there exists a problem for connection to other networks when a user is first connected in a WLAN network because of the missing of dedicated signaling (see sections [6]-[7]). Therefore, Ahmavaara's objection of the invention is to provide access to any other second network, such as GPRR or WLAN, via the first network, such as WLAN successfully (sections [8]-[18]).

Now, Melpignano is discussing a mobile station comprises a combo chipset that provides functionality to operate in multiple standards such as IEEE 802.11, WLAN, GSM/GPRS and Bluetooth, and the mobile station is adapted to switch and operate under any said wireless communication standards (see the abstract, sections [62], [71]-[72], [176]-[178], [181]).

Per discussion above, Ahmavaara, and further in view of Melpignano, discloses using credential information stored in a subscriber identity module (SIM) associated with a General Packet Radio Service (GPRS) adapter to authenticate access to a <u>new</u> wireless local area network (WLAN), wherein communications with the SIM <u>and the WLAN are</u> carried out using extensible authentication protocol (EAP).

As a result, the argued features are written such that they read upon the cited references.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in

Art Unit: 2617

order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

- 5. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 6. Claims 1-23 and 25-32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ahmavaara et al. (2005/0272465) and further in view of Melpignano (2005/0176473).

Consider claim 1, (Currently amended) Ahmavaara teaches a method (see the abstract), comprising:

using credential information stored in a subscriber identity module (SIM) associated with a General Packet Radio Service (GPRS) adapter to authenticate access to a <u>new</u> wireless local area network (WLAN), wherein communications with the SIM <u>and the WLAN are</u> is carried out using extensible authentication protocol (EAP) (see the abstract, figures 1 and 2, pars [8]-[18], [25]-[31] and [34]). However, Ahmavaara does not specifically show WLAN adapter and the GPRS adapter. It is noticeable Ahmavaara teaches the method of multiple simultaneous connections to different services in different networks, i.e., WLAN and GPRS networks of a user equipment (see the abstract, figures 1 and 2, par [16]). In an analogous art, Melpignano teaches an (WLAN) adapter and (GPRS) adapter (see the abstract, pars [16], [18], [22], [62], where describing the multi-standard wireless hardware adapted to support wireless operation of client devices, so disclosing the existence of WLAN and GPRS adapters). Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention was made to modify Ahmavaara invention, and have a (WLAN) adapter and (GPRS) adapter, as taught by Melpignano, thus improving wireless communication as discussed by Melpignano (see pars [16]-[18]).

Art Unit: 2617

Consider claim 9, (currently amended) Ahmavaara teaches a computer-readable medium including machine readable instructions that, if executed by a computer system, cause the computer system to perform a method comprising:

using credential information stored in a subscriber identity module (SIM) associated with a General Packet Radio Service (GPRS) adapter to authenticate access to a <u>new</u> wireless local area network (WLAN), wherein communications with the SIM <u>and the WLAN are</u> is carried out using extensible authentication protocol (EAP) (see the abstract, figures 1 and 2, pars [8]-[18], [25]-[31] and [34]). However, Ahmavaara does not specifically show WLAN adapter and the GPRS adapter. It is noticeable Ahmavaara teaches the method of multiple simultaneous connections to different services in different networks, i.e., WLAN and GPRS networks of a user equipment (see the abstract, figures 1 and 2, par [16]). In an analogous art, Melpignano teaches an (WLAN) adapter and (GPRS) adapter (see the abstract, pars [16], [18], [22], [62], where describing the multi-standard wireless hardware adapted to support wireless operation of client devices, so disclosing the existence of WLAN and GPRS adapters). Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention was made to modify Ahmavaara invention, and have a (WLAN) adapter and (GPRS) adapter, as taught by Melpignano, thus improving wireless communication as discussed by Melpignano (see pars [16]-[18]).

Consider claim 17, (Currently amended) Ahmavaara discloses a mobility client to initiate requests for credential information from the SIM to authenticate access to a WLAN when the mobility recognizes an access point, wherein said requests for the credential information are communicated to the SIM using extensible authentication protocol (EAP) (see the abstract, figures 1 and 2, pars [8]-[18], [25]-[31] and [34]).

using credential information stored in a subscriber identity module (SIM) associated with a General Packet Radio Service (GPRS) adapter to authenticate access to a <u>new</u> wireless local area network (WLAN), wherein communications with the SIM is carried out using extensible authentication protocol (EAP) (see the abstract, figures 1 and 2, pars [8]-[18], [25]-[31] and [34]). However, Ahmavaara does not specifically show WLAN adapter and the GPRS adapter. It is noticeable Ahmavaara

Art Unit: 2617

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Consider claim 27, (Currently amended) Ahmavaara discloses a system, comprising:

means for initiating requests for credential information from a subscriber identity module (SIM)
associated with a general packet radio service (GPRS) (see the abstract, figures 1 and 2, pars [8][18], [25]-[31] and [34]).

means for authenticating access to a <u>new</u> wireless local area network (WLAN) using the credential information (see the abstract, figures 1 and 2, pars [8]-[18], [25]-[31] and [34]); and means for switching data services from a GPRS connection to a WLAN connection after the access to the WLAN is authenticated (see the abstract, figures 1 and 2, pars [8]-[18], [25]-[31] and [34]);

Ahmavaara does not specifically show an adapter. It is noticeable Ahmavaara teaches the method of multiple simultaneous connections to different services in different networks, i.e., WLAN and GPRS networks of a user equipment (see the abstract, figures 1 and 2, par [16]). In an analogous art, Melpignano teaches an adapter (see the abstract, pars [16], [18], [22], [62], where describing the multi-standard wireless hardware adapted to support wireless operation of client devices, so disclosing the existence of adapters). Therefore, it would have been obvious to a person of ordinary skill in the art at the time of the invention was made to modify Ahmavaara invention, and have an adapter, as taught by Melpignano, thus improving wireless communication as discussed by Melpignano (see [16]-[18]).

Art Unit: 2617

Consider claim 31, (New) Ahmavaara discloses a method, comprising:

issuing one or more requests to a Subscriber Identity Module (SIM) associated with a General Packet Radio Service (GPRS) adapter using Extensible Authentication Protocol (EAP) (sections [17], [27]);

arbitrating the one or more requests to the SIM when the SIM is busy ([15], [16], [28], [30][33]);

receiving credential information stored in the SIM via a SIM reader driver ([30]-[33]); utilizing the credential information to authenticate access to a new Wireless Local Area Network (WLAN) using EAP ([8]-[18], [25]-[31] and [34]);

establishing a WLAN connection with the WLAN via a WLAN adapter ([8], [16], [24]); issuing a location update to switch data services from a GRPS connection to the WLAN connection ([5], [8]-[18], [25]-[31]); and

disconnecting from the GPRS connection (sections [34]).

Ahmavaara does not show an adapter, however, it is noticeable Ahmavaara teaches the method of multiple simultaneous connections to different services in different networks, i.e., WLAN and GPRS networks of a user equipment (see the abstract, figures 1 and 2, par [16]). Melpignano teaches an (WLAN) adapter and (GPRS) adapter (see the abstract, pars [16], [18], [22], [62], where describing the multi-standard wireless hardware adapted to support wireless operation of client devices, so disclosing the existence of WLAN and GPRS adapters).

Since both Ahmavaara and Melpignano teach method and system for wireless communication in multiple networks, it would have been obvious to a person of ordinary skill in the art at the time of the invention was made to modify Ahmavaara invention, and have an adapter, taught by Melpignano, to improve the wireless communication system discussed by Melpignano (see pars [16]-[18]).

Consider claim 32, (New) A computer-readable medium including machine readable instructions that, if executed by a computer system, cause the computer system to perform a method comprising:

issuing one or more requests to a Subscriber Identity Module (SIM) associated with a General

Art Unit: 2617

Packet Radio Service (GPRS) adapter using Extensible Authentication Protocol (EAP) (sections [17], [27]);

arbitrating the one or more requests to the SIM when the SIM is busy ([15], [16], [28], [30][33]);

receiving credential information stored in the SIM via a SIM reader driver ([30]-[33]); utilizing the credential information to authenticate access to a new Wireless Local Area Network (WLAN) using EAP ([8]-[18], [25]-[31] and [34]);

establishing a WLAN connection with the WLAN via a WLAN adapter ([8], [16], [24]); issuing a location update to switch data services from a GRPS connection to the WLAN connection ([5], [8]-[18], [25]-[31]); and

disconnecting from the GPRS connection (sections [34]).

Consider claims 2, 10, as applied to claims 1, 9 currently amended Ahmavaara, as modified by Melpignano, further teaches issuing one or more requests via a smart card interface to get the credential information (see pars [30]-[32]).

Consider claims 3, 11, as applied to claims 2, 10, Ahmavaara, as modified by Melpignano, further teaches arbitrating the one or more requests to the SIM when the SIM is busy (see pars [15], [16], [28], [30]-[33]).

Consider claims 4, 12, as applied to, claims 3, currently amended, Ahmavaara, as modified by Melpignano, further teaches the one or more requests are received by the SIM via a SIM reader driver (pars [8]-[18], [25]-[31] and [34], describing the usage of a SIM therefore inherently teaching a SIM reader device).

Consider claims 5, 13, as applied to, claims 4, 12, further teaches receiving the credential information from the SIM after the one or more requests are processed by the SIM (pars [30]-[33],

Consider claims 6, 14, as applied to, claims 1, 9, Ahmavaara, as modified by Melpignano, further teaches establishing a WLAN connection with the WLAN via a WLAN adapter (pars [8], [16], [24]).

Consider claims 7, 15 as applied to, claims 6, 14 Ahmavaara, as modified by Melpignano,

Art Unit: 2617

further teaches the WLAN connection is established while there is a connection to a GPRS network via the GPRS adapter (par [16]).

Consider claims 8, 16, as applied to, claims 7, 15 Ahmavaara, as modified by Melpignano, further teaches issuing a location update to switch data services from the GPRS network to the WLAN (see the abstract, figures 1 and 2, pars [5], [8]-[18], [25]-[31]); and teaches disconnecting from the GPRS network (pars [181]-[183], describing link quality decreased and switching to other networks, so teaching disconnectivity from the GPRS network).

Consider claim 18, as applied to, claim 17, Ahmavaara, as modified by Melpignano, teaches the requests for the credential information are communicated to the SIM via a smart card interface (figures 1, 3 and 12, pars [29], [30], [34], [60], [62], [64]).

Consider claim 19, as applied to, claim 18, Ahmavaara, as modified by Melpignano, wherein the requests for the credential information are received by the SIM via a SIM reader driver (figures 1, 3 and 12, pars [29], [30], [34], [60], [62], [64]).

Consider claim 20, as applied to claim 19, Ahmavaara, as modified by Melpignano, further teaches the GPRS adapter includes a SIM access module (SAM) to arbitrate the request for the credential information to the SIM (see pars [15], [16], [25], [28], [30]-[33]).

Consider claim 21, as applied to claim 20, Ahmavaara, as modified by Melpignano, further teaches the SAM arbitrates the requests for the credential information to the SIM while there is a GPRS connection to a GPRS network via the GPRS adapter (see pars [15], [16], [25], [28], [30]-[33]).

Consider claim 22, as applied to claim 21, Ahmavaara, as modified by Melpignano, further teaches wherein the mobility client is further to issue a location update after the access to the WLAN is authenticated and a WLAN connection is established (pars [5] and [28]).

Consider claim 23, as applied to claim 22, Ahmavaara, as modified by Melpignano, teaches the mobility client is further to drop the GPRS connection (pars [181]-[183]).

Consider claim 25, as applied to claim 17, Ahmavaara, as modified by Melpignano, teaches wherein the WLAN adapter and the GPRS adapter are installed an open platform (see pars [18], [49]-[50]).

Art Unit: 2617

Consider claim 26, as applied to claim 17, Ahmavaara, as modified by Melpignano, teaches wherein the WLAN adapter and the GPRS adapter are combined into one module (see figures 2, 3, pars [36]-[40], [45]-[47], [92], [98]).

Consider claim 28, claim 27, Ahmavaara, as modified by Melpignano, further teaches said means for requesting the credential information from the SIM includes means for arbitrating requests to the SIM (see pars [15], [16], [28], [30]-[33]).

Consider claim 29, as applied to claim 28, Ahmavaara, as modified by Melpignano, further teaches wherein said means for switching data services between the GPRS connection and the WLAN connection includes means for performing a location update (pars [5] and [28]).

Consider claim 30, as applied to claim 27, Ahmavaara, as modified by Melpignano, further teaches means for interfacing with the SIM to send the request for the credential information (pars [28], [30]-[33]).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Huy C. Ho whose telephone number is (571) 270-1108. The examiner can normally be reached on Monday - Friday, 8:00 a.m. - 5:00 p.m., EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Duc Nguyen can be reached on 571-272-7503. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 2617

Customer Service Representative or access to the automated information system, call 800-786-9199 (IN

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Page 11